SEQ ID NO	Sequence
1	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
2	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRY
3	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQK
4	Ac-HTEAVFTDOYTRLRKOVAAKKYLOSIKOKRY
5	Ac-HSDAVFTDQYTRLRKQLAVKKYLQDIKQGGT
6	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKR
7	Ac-HSDAVFTDQYTRLRKQLAAKKYLQTIKOKRY
8	Ac-HSDAVFTDQYTRLRKOMAAKKYLOTIKOKRY
9	Ac-HSDAVFTDQYTRLRKQMAAHKYLQSIKQKRY
10	Ac-HSDAVFTDQYTRLRKQMAAKHYLQSIKQKRY
11	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKQKR
12	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKQKR
13	Ac-HSDAVFTDQYTRLRKQMARKKYLQSIKQKR
14	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQKR
15	AC-HSDAVFTDQYTRLRKQMAAKKYLQSIPQKR
16	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQQKR
17	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIRQKR
18	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQRR
19	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKA
20 · ·	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKF
21	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKH
22	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKI
23	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKK
24	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKL
25	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKM
26	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKP
27	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKQ
28	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKS
29	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKT
30	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKV
31	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKW
32	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKY
33	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKQRI
34	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKQRI
35	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQRI
36	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPQRI
37	- Ac-HSDAVFTDQYTRLRKQMASKKYLQSIRQRI

FIG. 1a

SEQ ID NO	Sequence
38	Ac-HSDAVFTDNYTRLRKQVAAKKYLOSIKOKRY
39	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKOKRY
40	Ac-HSDAVFTDNYTRLRKQVAAKKYLQSIKOK
41	Ac-HTEAVFTDNYTRLRKQVAAKKYLQSIKQKRY
42	Ac-HSDAVFTDNYTRLRKQLAVKKYLQDIKQGGT
43	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKR
44	Ac-HSDAVFTDNYTRLRKQLAAKKYLQTIKQKRY
45	Ac-HSDAVFTDNYTRLRKQMAAKKYLQTIKQKRY
46	Ac-HSDAVFTDNYTRLRKQMAAHKYLQSIKQKRY
47	Ac-HSDAVFTDNYTRLRKQMAAKHYLQSIKQKRY
48	Ac-HSDAVFTDNYTRLRKQMAGKKYLQSIKQKR
49	Ac-HSDAVFTDNYTRLRKQMAKKKYLQSIKQKR
50	Ac-HSDAVFTDNYTRLRKQMARKKYLQSIKQKR
51	Ac-HSDAVFTDNYTRLRKQMASKKYLQSIKQKR
52	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIPQKR
53	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIQQKR
54	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIRQKR
55	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQRR
56	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKA
57	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKF
.58	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKH
. 59	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKI
·60	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKK
61	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKL
-62	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKM
63	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKP
64	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKQ
65	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKS
66	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKT
67	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKV
68	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKW
69	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKY
70	Ac-HSDAVFTDNYTRLRKQMAGKKYLQSIKQRI
71	Ac-HSDAVFTDNYTRLRKQMAKKKYLQSIKQRI
72	Ac-HSDAVFTDNYTRLRKQMASKKYLQSIKQRI
73	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIPQRI
74	Ac-HSDAVFTDNYTRLRKQMASKKYLQSIRQRI

FIG. 1b

SEQ ID NO	Sequence
75	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKNKRY
76	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKRY
77	Ac-HSDAVFTDOYTRLRKOVAAKKYLOSIKNK
79	Ac-HTEAVFTDQYTRLRKQVAAKKYLQSIKNKRY
80	Ac-HSDAVFTDQYTRLRKQLAVKKYLODIKNGGT
81	Ac-HSDAVFTDOYTRLRKOMAAKKYLOSIKNKR
82	Ac-HSDAVFTDQYTRLRKQLAAKKYLQTIKNKRY
83	Ac-HSDAVFTDOYTRLRKOMAAKKYLOTIKNKRY
84 ·	Ac-HSDAVFTDQYTRLRKQMAAHKYLOSIKNKRY
85	Ac-HSDAVFTDQYTRLRKQMAAKHYLQSIKNKRY
86	Ac-HSDAVFTDQYTRLRKQMAGKKYLOSIKNKR
87	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKNKR
	AC-HSDAVFTDQYTRLRKQMARKKYLOSIKNKR
88	
89 .	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKNKR
90	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPNKR
91	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQNKR
92 .	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIRNKR
93	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNRR
94	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKA
95 .	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKF
96	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKH
97	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKI
98	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKK
99	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKL
100	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKM
101	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKP
102	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKQ
103	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKS
104	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKT
105 .	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKV
106	AC-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKW
107	AC-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKY
108	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKNRI
109	Ac-HSDAVFTDOYTRLRKOMAKKKYLOSIKNRI
110	AC-HSDAVFTDQYTRLRKOMASKKYLOSIKNRI
111	Ac-HSDAVFTDOYTRLRKOMAAKKYLOSIPNRI
112	AC-HSDAVFTDOYTRLRKOMASKKYLOSIRNRI
	T TIP TIPET TO STATE OF THE STA

SEQ ID NO	Sequence
113	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
114	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRYC-PEG
115	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKC-PEG
116	.Ac-HTEAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
117	Ac-HSDAVFTDQYTRLRKQLAVKKYLQDIKQGGTC-PEG
118	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRC-PEG
119	Ac-HSDAVFTDQYTRLRKQLAAKKYLQTIKQKRYC-PEG
120	Ac-HSDAVFTDQYTRLRKQMAAKKYLQTIKQKRYC-PEG
121	Ac-HSDAVFTDQYTRLRKQMAAHKYLQSIKQKRYC-PEG
122	Ac-HSDAVFTDQYTRLRKQMAAKHYLQSIKQKRYC-PEG
123	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKQKRC-PEG
124	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKQKRC-PEG
125	Ac-HSDAVFTDQYTRLRKQMARKKYLQSIKQKRC-PEG
126	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQKRC-PEG
127	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPQKRC-PEG
128	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQQKRC-PEG
129	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIRQKRC-PEG '
130	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQRRC-PEG
131	AC-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKAC-PEG
132	AC-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKFC-PEG
133	AC-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKHC-PEG
134	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKIC-PEG
135	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKKC-PEG
136	-Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKLC-PEG
137	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKMC-PEG
138	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKPC-PEG
139	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKQC-PEG
140	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKSC-PEG
141	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKTC-PEG
142	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKVC-PEG
143	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKWC-PEG
144	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKYC-PEG
145	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKQRIC-PEG
146	Ac-HSDAVFTDQYTRLRKQMAKKKYLQSIKQRIC-PEG
147	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQRIC-PEG
148	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPQRIC-PEG
149	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIRQRIC-PEG

FIG. 1d

SEQ ID NO	Sequence
150	HSDGIFTDSYSRYRKQMAVKKYLAAVLGKRYKQRVKNK
151	HSDGIFTDSYSRYRKQMAVKKYLAAVL
152	HSDAVFTDNYTRLRKQMAVKKYLNSILN
153	HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
154	Ac-HTDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
155	HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
156	Ac-HTDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG

FIG. 1e

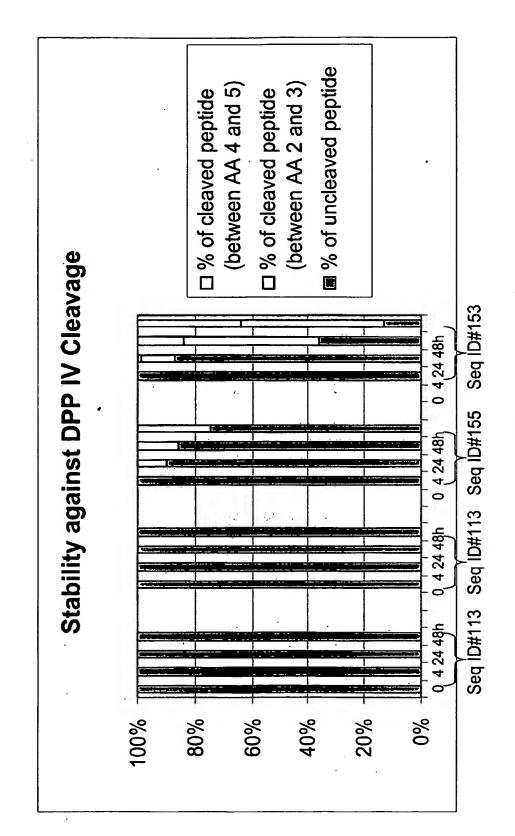
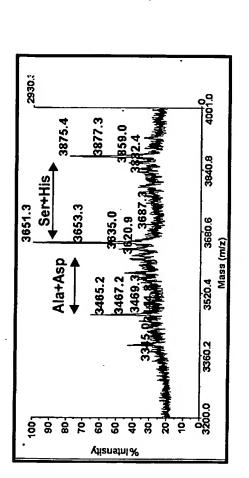


Figure 2a



SEQ ID #153 is cleaved by DPPIV.



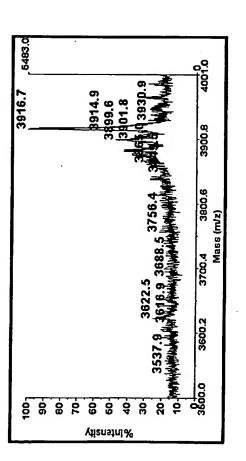


Figure 2b

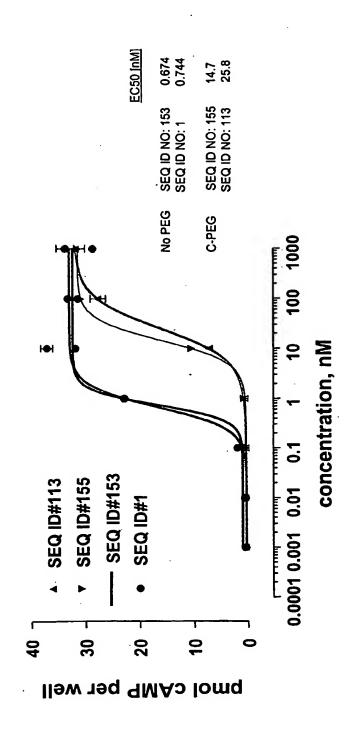


Figure 3

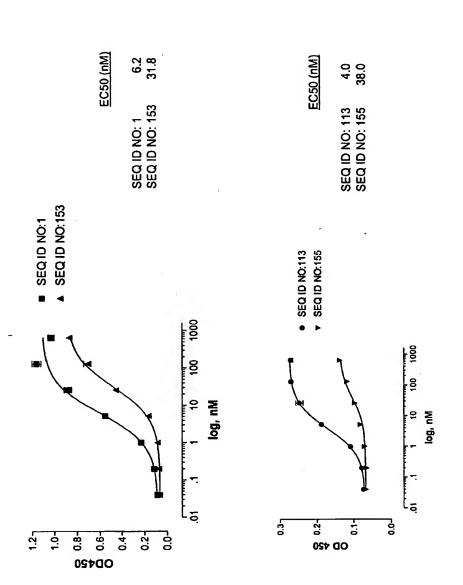
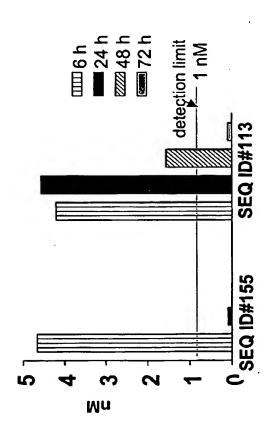


Figure 4



	6 hrs.	24 hrs.	48 hrs.	72 hrs.
SEQ ID#155	4.66±0.43	< 1	< 1	<b>1</b> >
SEQ ID#113	4.21±0.25	4.57±0.37	1.56±0.12	< 1

Figure 5a

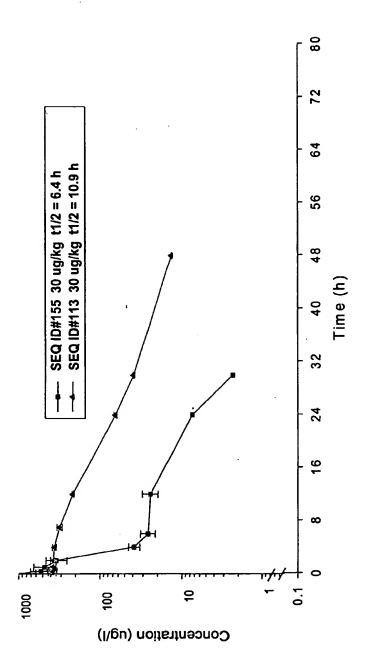


Figure 5b

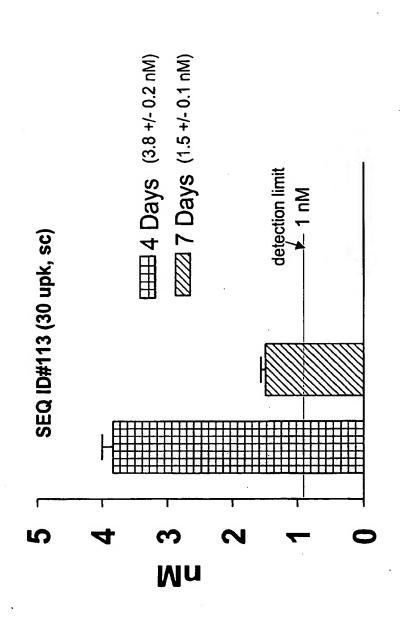


Figure 5c

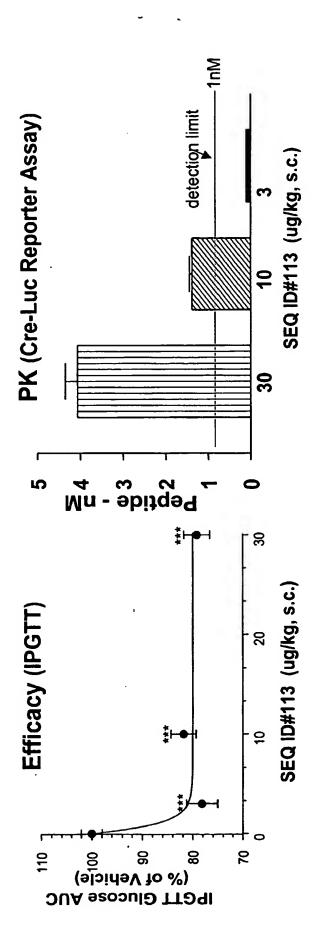


Figure 6a

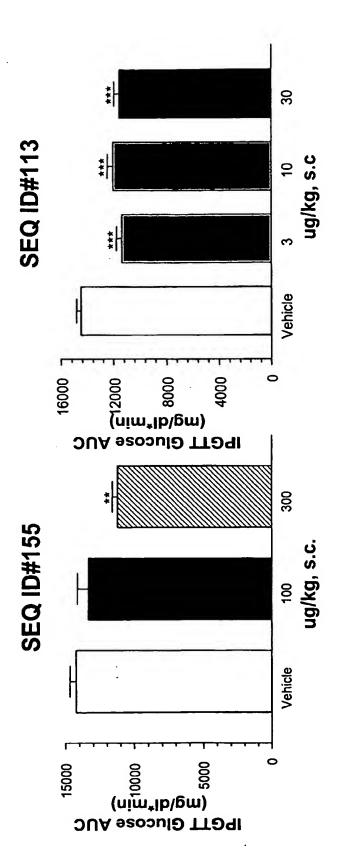
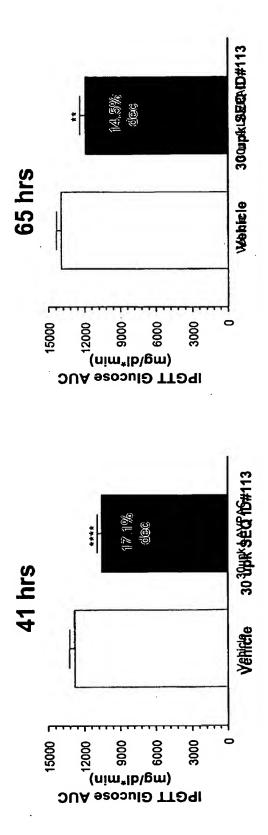


Figure 6b



	24 hrs.	41 hrs.	65 hrs.
SEQ ID#113	20+3*	17±2*	14.5±3*

Figure 6c